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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/523,523	02/04/2005	Tsuguo Yamaoka	00005.001254	1316
5514	7590	05/01/2006	EXAMINER	
FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112			JOHNSON, CONNIE P	
		ART UNIT	PAPER NUMBER	
		1752		

DATE MAILED: 05/01/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/523,523	YAMAOKA ET AL.
	Examiner	Art Unit
	Connie P. Johnson	1752

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 04 February 2005.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-5 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>02/04/2005</u> . | 6) <input type="checkbox"/> Other: _____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Meador et al., U.S. Patent No. 6,156,479 or Meador et al., U.S. Patent No. 5,919,599.

Meador teaches an anti-reflective coating composition comprising a glycidyl acrylate or methacrylate polymer, a light-absorbing dye and an acid catalyst. The glycidyl acrylate or methacrylate polymer comprises a molecular weight of 5,000-100,000g/mol. The polymer meets limitations of general formula (I) of instant claim 1 (see Figure 1). The groups corresponding to R¹ and R² form an aromatic ring and the methyl group off of the vinyl polymer backbone meets the limitations of the lower alkyl (R⁴). The light-absorbing dye and the acid catalyst are present in an amount of 2.5 to 10% by weight (col. 6, line 61) (U.S. Pat. No. 5,919,599, col. 7, line 39).

Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Ushirogouchi et al., U.S. Patent No. 5,928,841 or Ushirogouchi et al., U.S. Patent No. 6,168,897. Ushirogouchi teaches a method of forming a pattern on a substrate comprising a light-sensitive layer. The light-sensitive layer comprises an acetal resin, such as structure (3) in column 7. Structure (3) meets the limitations of the general

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formula in instant claim 1 when R⁷ is a carboxy group (col. 7, line 52). The molecular weight of the acetal resin is in the range of 1,000-300,000 (col. 8, line 9). The light-sensitive layer further comprises an acid generator and a fluorescent dye. The acid generator and fluorescent dye are present in amounts of 0.5-30% (col. 6, line 62) and 1.0-50% by weight, respectively (col. 14, lines 54-56), (U.S. Patent No. 6,168,897, col. 15, line 3).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent No. 6,156,479, Continuation in Part of U.S. Patent No. 5,919,599, Thermosetting Anti-Reflective Coatings, U.S. Patent No. 6,168,897 B1, Method of Forming Patterns.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Connie P. Johnson whose telephone number is 571-272-7758. The examiner can normally be reached on 7:30am-4:00pm Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



CYNTHIA H. KELLY
SUPPLY CHAIN EXAMINER
TECHNOLOGY CENTER 1700

